

GenCore version 5.1.4.p5_4578
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OM protein - nucleic search, using frame_plus_p2n model

Run on: March 15, 2003, 23:25:27 ; Search time 103.105 Seconds
(without alignments)
2525.515 Million cell updates/sec

Title: US-08-978-217-16

Perfect score: 1985

Sequence: 1 MATCEISNVFSNYFNAMYS.....YKFKNNSGWKEEVEGSSRN 371

Scoring table: BLOSUM62
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Ygapop 10.0 , Ygapext 0.5
Delop 6.0 , Delext 7.0

Searched: 501302 segs, 350932545 residues

Total number of hits satisfying chosen parameters: 1002604

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	1712	86.2	1915	US-09-964-824A-101
2	1712	86.2	1915	US-09-964-824A-563
3	1712	86.2	1915	US-09-880-107-3420
4	1712	86.2	1915	US-09-967-768A-192

5	1712	86.2	1917	US-10-025-380-1105	Sequence 1105, App
6	1712	86.2	1917	US-09-922-217-1105	Sequence 1105, App
7	1712	86.2	1996	US-09-925-301-207	Sequence 207, App
8	928.5	46.8	626	US-10-025-380-853	Sequence 853, App
9	928.5	46.8	626	US-09-922-217-853	Sequence 853, App
10	928.5	46.8	626	US-09-813-263-853	Sequence 853, App
11	833.5	42.0	563	US-10-025-380-944	Sequence 944, App
12	833.5	42.0	563	US-09-922-217-944	Sequence 944, App
13	833.5	42.0	563	US-09-813-263-944	Sequence 944, App
14	803	40.5	502	US-10-076-622-282	Sequence 282, App
15	803	40.5	502	US-09-604-287A-282	Sequence 282, App
16	803	40.5	502	US-09-339-338-282	Sequence 282, App
17	803	40.5	502	US-10-007-805-282	Sequence 282, App
18	765	38.5	499	US-09-998-598-2290	Sequence 2290, App
19	590.5	29.7	1426	US-09-925-297-309	Sequence 309, App
20	585	29.5	1429	US-09-764-864-320	Sequence 320, App
21	555.5	28.0	437	US-09-998-598-2216	Sequence 2216, App
22	543	27.4	852	US-09-232-880-44	Sequence 44, App1
23	543	27.4	852	US-10-012-896-44	Sequence 44, App1
24	543	27.4	852	US-09-895-793-44	Sequence 44, App1
25	543	27.4	852	US-09-895-814-44	Sequence 44, App1
26	543	27.4	852	US-09-759-143-44	Sequence 44, App1
27	543	27.4	852	US-09-780-668-44	Sequence 44, App1
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29	543	27.4	852	US-09-822-827-44	Sequence 44, App1
30	543	27.4	852	US-09-115-453-44	Sequence 44, App1
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32	442	22.3	5045	US-09-974-298-12	Sequence 12, App1
33	435	21.9	440	US-09-960-352-11873	Sequence 11873, App
34	363	18.3	451	US-09-998-598-32	Sequence 32, App1
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37	253	12.7	174	US-09-998-598-1740	Sequence 1740, App
38	235.5	11.9	3663	US-10-098-841-44	Sequence 44, App1
39	235	11.8	3591	US-10-098-841-45	Sequence 45, App1
40	234.5	11.8	1528	US-09-902-772-3	Sequence 3, App11
41	233.5	11.8	1894	US-09-126-945B-1	Sequence 1, App11
42	233.5	11.8	1905	US-09-866-358-2	Sequence 2, App11
43	228	11.5	4180	US-09-962-833-111	Sequence 11, App
44	225	11.3	1447	US-09-902-772-1	Sequence 1, App11
45	222	11.2	507	US-10-015-219-489	Sequence 489, App

ALIGNMENTS

RESULT 1
US-09-964-824A-101
; Sequence 101, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964, 824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236, 033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236, 032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236, 028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 101
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-101
Alignment Scores: 2.42e-172 Length: 1915
Pred. No.: 1712.00 Matches: 323
Score:

Percent Similarity: 92.74%
 Best Local Similarity: 86.83%
 Query Match: 86.25%
 DB: 10
 Gaps: 2

US-08-978-217-16 (1-371) x US-09-964-824A-101 (1-1915)

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Qy 1 MetAlaAlaThrCysGluLeuIleSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSer 20
Db 120 ATGGCTGCACTGTGAGATTAGCAACATTTTACCACTACTTCCAGTGCAGTATGACGC 179
Qy 21 SerGluAapProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAapLeu 39
Db 180 TCGAGAGACTCCACCCCTGCTCTGTTCCCTGCTGCACCTTTGGGGCCCATATCTTG 239
Qy 40 ValLeuThrLeuAsnAsnGlnGlnMetThrLeuGluGlyProGluLysAlaSerTrpThr 59
Db 240 GTACTGACCCCTGAGAACCCCGAGATGTCATGTGAGGGTACAGAGAGGCCAGCTGGTTG 299
Qy 60 SerGluAapProGlnPheTrpSerTrpThrGlnValLeuGluTrpIleSerTyrGlnVal 79
Db 300 GGGGAGACGCCCACTTCTGCTGCAAGACGAGCTTCTGATGATGATCAGCTACCAAGTG 359
Qy 80 GluLysAsnLysTyrAspAlaSerSerIleAapPheSerTrpCysAsnMetAspGlyAla 99
Db 360 GAGAAAGAACAGTACGACGCAAGCCCACTTGACTTCTCAGATGTCAGATGATGGCGCC 419
Qy 100 ThrLeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 119
Db 420 ACCCTCTGCATTTGCTCCCTTGTAGAGCTGCTGCTGTTGGCTCTTGGGGAGACCA 479
Qy 120 LeuHisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleIle 139
Db 480 CTCACATGCCAGCTCGAGACTCCACTCTTCCAGCTCTTCCAGTACCTCAGTTGGATCAT 539
Qy 140 GluLeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyProPhe 159
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Qy 160 AapGlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyr 179
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Qy 180 TyrCysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAla 199
Db 657 CACCCCGGACGCTGTGCGCGCAGAGACCCCTCCTCGAGCTCTGACCTCTCCACCGA 716
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Db 717 GGGACTGGTCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAATGACGTGACCTG 776
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US-09-964-824A-563
; Sequence 563, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horizgan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964, 824A
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236, 033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236, 032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236, 028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 563
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-563

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Alignment Scores:

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Pred. No.: 2,42e-172 Length: 1915
Score: 1712.00 Matches: 323
Percent Similarity: 92.74% Conservative: 22
Best Local Similarity: 86.83% Mismatches: 25
Query Match: 86.25% Indels: 2
Gaps: 2

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US-08-978-217-16 (1-371) x US-09-964-824A-563 (1-1915)

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Db 240 GTACTGACCCCTGAGAACCCCGAGATGTCATGTGAGGGTACAGAGAGGCCAGCTGGTTG 299
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Qy 100 ThrLeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 119
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Qy 120 LeuHisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleIle 139
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; Sequence 3420, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; PRIOR FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3420
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843

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US-09-880-107-3420
Alignment Scores:
Pred. No.: 2,42e-172
Score: 1712.00
Percent Similarity: 92.74%
Best Local Similarity: 86.83%
Query Match: 86.25%
DB: 10
Gaps: 2

US-08-978-217-16 (1-371) x US-09-880-107-3420 (1-1915)
QY 1 MetAlaAlaThrCysGluLysSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSer 20
DB 120 ATGGCTGCAACCTGTGAGATTAGCAATTTTATGCAACTTCACTGAGTGAAGTACAGC 179
QY 21 SerGluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeu 39
DB 180 TCGAGGACTCCACCTCGGCGCTGTTCCCTGCTGCCACCTTTGGGGCCGAGTACTTG 239
QY 40 ValLeuThrLeuAsnAsnGlnGlnMetThrLeuGluGlyProGluLysAlaSerTyrThr 59
DB 240 GTACTGACCTTGACCAACCCCGAGATGTATTGGAGGGTACAGAGAGCCAGCTGCTTG 299
QY 60 SerGluArgProGlnPheTyrPserLysThrGlnValLeuGluLysTyrGlnVal 79
DB 300 GGGGAAACAGCCCAAGTCTGTGGTGAAGACGACAGTTCGTGACTGATCAGCTCAAGTG 359
QY 80 GluLysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAla 99
DB 360 GAGAAGAAACAAGTACGACGGAACGCGCATTCCTCAAGATGTGACATGATGGCGCC 419
QY 100 ThrLeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 119
DB 420 ACCCTGCAATTGTGCTCTTGAAGAGCTGCTGCTCTTGGGCTCTGGGGAGCA 479
QY 120 LeuHisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTyrPhe 139
DB 480 CTCATCTCCAGCTGGAGACTCACTTCAGCTCTTCTGATGAGCTCAGTTGGATCAT 539
QY 140 GluLeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyProPhe 159
DB 540 GACTGCTGAGAGAGTGGCATGCGCTTCAGAGGCCCTTA---GACCCAGAGGCCCTTT 596
QY 160 AspGlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyr 179
DB 597 GACCAAGGAGGAGCCCTTTGGCCAGAGACTGCTGGACACGCTGAGCAAGCCAGCCCTTAC 656
QY 180 TyrCysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAla 199
DB 657 CACCCCGGAGCTGTGGCGCAGAGGCCCTCCCTCGGAGCTTGACGTCTCCACCGCA 716
QY 200 ArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeu 219
DB 717 GGGACTGTGCTCTCCGAGACTCCCACTCCCTCAGACTCCCGTGAAGTGAAGTGAAGCTG 776
QY 220 AspLeuThrGluSerLysValPheProArgAspAspPheThrAspTyrLysLysGlyGlu 239
DB 777 GATCCCACTATGGCAAGCTCTTCCCGAGCGATGTTTGGTGAAGTGAAGAGAGGAGAT 836
QY 240 ProLysHisGlyLysArgLysArgGlyArgProArgLysSerLysGlyLysTyrTrpAsp 259
DB 837 CCCAAGACGCGGAAGCGGAACGAGGCCCGGCCGGAAGCTGAGCAAAAGACTAGGGAGC 896
QY 260 CysLeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTyrPheGluPhe 279
DB 897 TGCTCGAGGCGCAAGAGAGCAAGCAGCGCCGAGAGGCCCACTGCTGGAGATTCATC 956
QY 280 ArgAspIleLeuIleHisProGlnLeuLeuAsnGluGlyLeuMetLysTrpGluAsnArgHis 299
DB 957 CGGACACTCTCATCCACCCGAGACTCAACGAGGCGCTCATGAAGTGGAGAAATCGGCAT 1016
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Db 1077 AAGAACAGACATACATCACTACAGAAAGCTGAGCCGGCCATAGGACTACTACACAAAGC 1136
Qy 340 GluIleuSerAerValAspGluValArgArgLeuValTyrLysPheGluLysaensSer 359
Db 1137 GAGATCCTCGAAGCGGTGGATGGCGGCGACTGCTCAAGATTGGCAAAAACCTCAAGC 1196
Qy 360 GlyTrpLysGluGluGluValGlyGluSerArgaen 371
Db 1197 GGCTGGAAGAGAGAGAGATTCTCCAGACTCGAAGC 1232

RESULT 4
US-09-967-768A-192
; Sequence 192, Application US/09967768A
; Patent No. US20020150877A1
; GENERAL INFORMATION:
; APPLICANT: Augustus, Meena
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 689290-72
; CURRENT APPLICATION NUMBER: US/09/967,768A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/60/236,109
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,034
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,111
; NUMBER OF SEQ ID NOS: 325
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 192
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-967-768A-192

Alignment Scores:
Pred. No.: 2,42e-172 Length: 1915
Score: 1712.00 Matches: 323
Percent Similarity: 92.74% Conservative: 22
Best Local Similarity: 86.83% Mismatches: 25
Query Match: 86.25% Indels: 2
DB: 10 Gaps: 2

US-08-978-217-16 (1-371) x US-09-967-768A-192 (1-1915)
Qy 1 MetAlaIaIaThrCyGluIleSerAenValPheSerAenTyrPheAsnAlaMetTyrSer 20
Db 120 ATGGCTGCACCTGTGAGATTAGCAACATTTTATGCACTACTTCAAGTCCGATGACAC 179
Qy 21 SerGluAerProThrLeuAlaProAlaProPro---ThrThrPheGluThrGluAspLeu 39
Db 180 TCGAGGAGACTCCACCCTGCTGTTCCCTGCTGACCACTTTGGGGCGATGACTTG 239
Qy 40 ValLeuThrLeuAsnAsnGlnGlnMetThrLeuGluGlyProGluLysAlaSerTrpThr 59
Db 240 GTACTGACCTCGAGCAACCCCGAGATGTCATTTGAGGGTACAGAAAGCCGCTGGTTG 299
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Qy 80 GluLysAenLysTyrAspAlaSerSerIleAspPheSerArgCyAsnMetAspGlyAla 99
Db 360 GAGAGAAACAATACAGACGCCAAGCCCATTTGACTCTCAAGATGACATGATGGCGCC 419
Qy 100 ThrLeuCySerCyAlaLeuGluGluLeuArgLeuValPheGlyProLeuGluLysArgIn 119
Db 420 ACCCTCTCAATTGTGCCCTTGAGGAGTGCGCTGTGTTGGGCTCTGGGGGACCAA 479
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Qy 120 LeuHisAlaGlnLeuArgAspLeuThrSerAenSerAerGluLeuSerTrpIleIle 139
Db 480 CTCATGCCCGCAGCTGCGAGACCTCACTTCTTGATGAGCTCAGTTGATGACTTT 539
Qy 140 GluLeuLeuGluLysAspGluMetSerPheGlnGluSerLeuGluLysAspLeuGlu 159
Db 540 GAGCTGCTGGAAAGAGATGGATGGCTTCCAGAGGCCCTA---GATCCAGGGCCCTT 596
Qy 160 AspGlnGlySerProPheAlaGlnGluLeuLeuAspAspGluArgGlnAlaSerProTyr 179
Db 597 GACCAAGGACACCCCTTTGGCCAGAGCTGTGGACACAGCGGTCAAGCAAGCCAGCCCTAC 656
Qy 180 TyrCySerThrTyrGlyProGluAlaProSerProGlySerSerAspValSerThra 199
Db 657 CACCCGCGACCTGGGCGCAGAGCCCTCCCTGCGACCTGACGTCTCCACCCCA 716
Qy 200 ArgThraIaThrProGlnSerSerHisAlaSerAerSerGlyLysAspValAspLeu 219
Db 717 GGGACTGTGCTTCGAGAGCTCCACCTCCAGACTCCGGTGGAAAGTGAAGTGAAGCTG 776
Qy 220 AspLeuThrGluSerLysValPheProArgAspAspPheThraAspTyrLysLysGlyGlu 239
Db 777 GATCCCATGTATGGCAAGCTTCTCCCGACGATGTTTCTGACTGCAAGAGGGGAT 836
Qy 240 ProLysHisGluLysArgLysArgGluArgProArgLysLeuSerLysGluTyrTrpAsp 259
Db 837 CCAAGACAGCGGAAGCGGAACGAGGCGCGCCGAAAGTGAACAAAGTACTGGGAC 896
Qy 260 CysLeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIle 279
Db 897 TGTCGAGGGGCAAGAAAGAACACACCGGCCAGAGCACCTGTGGAGTTCAATC 956
Qy 280 ArgAspIleLeuIleHisProGluLeuAsnGluLysLeuMetLysTrpGluAsnArgHis 299
Db 957 CGGACATCTCATTCACCCGAGCTCAACAGAGGCTCATGAAGTGGAGATTCGCAT 1016
Qy 300 GluGlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLys 319
Db 1017 GAGGCGCTTCMAAGTTCTCGCTCCGAGGCTGTGGCCCAATATGGGCGCAAAAGAAA 1076
Qy 320 LysaensSerAemMetThrTyGluIleuSerAerAlaMetArgTyrTyTrpLysArg 339
Db 1077 AAGAACAGCAACATCACTACAGAAAGCTGAGCCGGCCATAGGACTACTACAAAGC 1136
Qy 340 GluIleuSerAerValAspGluValArgArgLeuValTyrLysPheGluLysaensSer 359
Db 1137 GAGATCCTCGAAGCGGTGGATGGCGGCGACTGCTCAAGATTGGCAAAAACCTCAAGC 1196
Qy 360 GlyTrpLysGluGluGluValGlyGluSerArgaen 371
Db 1197 GGCTGGAAGAGAGAGATTCTCCAGACTCGAAGC 1232

RESULT 5
US-10-025-380-1105
; Sequence 1105, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secretist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yassir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
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; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025.380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1105
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-025-380-1105

Alignment Scores:
Pred. No.: 2,42e-172 Length: 1917
Score: 1712.00 Matches: 323
Percent Similarity: 92.74% Conservative: 22
Best Local Similarity: 86.83% Mismatches: 25
Query Match: 86.25% Indels: 2
DB: Gaps: 2

US-08-978-217-16 (1-371) x US-10-025-380-1105 (1-1917)

Qy 1 MetAlaAlaThrcYsgJuiLseSerAsnValPheSerAsnTyrrPheAsnAlaMetTySer 20
Db 122 ATGGCTCAACCTGTGAGATTAGCAACATTTTTCAGCACTTCACTGAGTGCATGACAGC 181

Qy 21 SerGluAspProThrLeuAlaProAlaProPro--ThrrThrPheGlyThrGluAspLeu 39
Db 182 TCAGAGACATCCACCCCTGGCTCTGTTCCCTCTGCTCCACCTTGGCGCGCATGACTTG 241

Qy 40 ValLeuThrLeuAsnAngInGlnMetThreugLugLysProGluLysAlaSerTrpThr 59
Db 242 GTACTGACCTTGAGCAACCCCAAGATGCTATTGAGGGTACAGAAAGCCAGCTGGTG 301

Qy 60 SerGluArgProGlnPheTrpSerLysThreGlnValLeuGluTrpLysSerTyGlnVal 79
Db 302 GGGGAACAGCCCGGCTCTGGTGCAGACGCGAGGTTCTGACCTGCATGATCCAAAGTG 361

Qy 80 GluLysAsnLysTyraPAlaSerSerLLeaPheSerArgCyAsnMetAspGlyValA 99
Db 362 GAGAAAGAACAGTACGACGCAAGCGCATGACTTTCACATGATGATGATGGCGCC 421

Qy 100 ThreLysSerCyAsAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 119
Db 422 ACCCTCTGCATTGTGCTTGGAGAGCTGCTGTGCTTGGCCCTTGGGGAGCCAA 481

Qy 120 LeuHisAlaGlnLeuAArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpLle 139
Db 482 CTCATGCCCAAGCTGCGACACTTCACTTCTGATGAGCTCAGTTGATGATCATT 541

Qy 140 GluLeuLeuGluLysAspGlyMetSerPheGlnLysSerLeuGlyAspLeuGlyProPhe 159
Db 542 GAGCTGCTGGAAGAGATGGATGGCTTCCAGAGAGGCCCTA--GACCCAGGGCCCTTT 598

Qy 160 AspGlnLysProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyrr 179
Db 599 GACCAAGGCGAGCCCTTGGCCAGAGCTGTGACGACGCTGCAAGCCAGAGCCCTTAC 658

Qy 180 TyrcYserThrTyrglyProGlyAlaProSerProGlySerSerAspValSerThAla 199
Db 659 CACCCCGGACGCTGCGCGAGAGGCCCTTCCCTGACACTTTCAGCTTCCACCGCA 718

Qy 200 ArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyLysSerAspValAspLeu 219
Db 719 GGAAGCTGCTCTCGAGAGCTCCACCTCCAGACTCCGGTGAAGTGAAGTGAAGTGAAGT 778

Qy 220 AspleuThrGluSerLysValAlaPheProArgAspAspPheTrpAspTyrrLysLysGly 239
Db 779 GATCCCACTGATGCAAGCTTCTCCCAAGCATGATTTTCGTGACTGCAAAAGAGGGGAT 838

Qy 240 ProLysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrrTrpAsp 259

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Db 839 CCAGAGCGGGAAGGAGGAGAGAGCGGCGCCGAGAGCTTGACCAAGATCTGGGAC 898
Qy 260 CysLeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIle 279
Db 899 TGCTCGAGGGCAAGAGACAGCAAGCCGCCAGAGGACCCACCTGTGGAGTTTCATC 958
Qy 280 ArgAspLleLeuLethisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHis 299
Db 959 CGGAGACATCTCATCCACCGGAGCTCAACGAGGGCTCTGATGAGTGGAGAAATCCGCAT 1018
Qy 300 GluGlyValAlaPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 319
Db 1019 GAAGGCTCTTCAAGTCTCGCGCTCCGAGCTGTGGCCCACTATGGGGCCAAAGAAA 1078
Qy 320 LysAsnSerAsnMetThrrTyrgLulysLeuSerArgAlaMetArgTyrrTyrrLysArg 339
Db 1079 AAGAACAGCAACATGACTTCGAGAACCTAGCCGGCCATGAGTACTACTACAAACGG 1138
Qy 340 GluLleLeuGluArgValaAspGlyArgArgLeuValTyrrLysPheGlyLysAsnSerSer 359
Db 1139 GAGATCCTGGAAACGGGTGGATGGCGGCGACTCGTCAACAAGTTGGCAAAACTCAAGC 1198
Qy 360 GlyTrpLysGluGluGluValaGlyLysSerArgAsn 371
Db 1199 GGCTGGAAGAGAGAGAGGTTCTTCAGATCGGAAC 1234

RESULT 6
US-09-922-217-1105
; Sequence 1105, Application US/09922217
; Patent No. US2002076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secret, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongrong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922.217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1105
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-922-217-1105

Alignment Scores:
Pred. No.: 2,42e-172 Length: 1917
Score: 1712.00 Matches: 323
Percent Similarity: 92.74% Conservative: 22
Best Local Similarity: 86.83% Mismatches: 25
Query Match: 86.25% Indels: 2
DB: Gaps: 2

US-08-978-217-16 (1-371) x US-09-922-217-1105 (1-1917)

Qy 1 MetAlaAlaThrcYsgJuiLseSerAsnValPheSerAsnTyrrPheAsnAlaMetTySer 20
Db 122 ATGGCTCAACCTGTGAGATTAGCAACATTTTTCAGCACTTCACTGAGTGCATGACAGC 181

Qy 21 SerGluAspProThrLeuAlaProAlaProPro--ThrrThrPheGlyThrGluAspLeu 39

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Db 182 TGGGAGACTCCACCTGGCCTCTGTTCCCTGCTGCCACCTTTGGGGCCGATGACTTG 241
Qy 40 ValLeuThrLeuAsnAsnGlnGlnMetThrLeuGluGlyProGluValAspSerThr 59
Db 242 GAACTGACCTGAGCAACCCCGAGATGATGAGGATACAGAAAGCCGAGCTGTTG 301
Qy 60 SerGluArgProGlnPheThrPheSerThrGlnValLeuGluTrpIleSerThrGlnVal 79
Db 302 GGGGAACACCCCGAGTCTGCTGGAAGAGCAGTTCTGAGCTGATGCTACCAAGTG 361
Qy 80 GluValAsnLeuTyArgAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAla 99
Db 362 GAGAAAGAACATGACACCCCAAGCCGCACTTGACTTCTACGATGACATGATGAGCCGC 421
Qy 100 ThrLeuCysSerCysAlaLeuGlnGluLeuValArgLeuValPheGlyProLeuGlyAspGln 119
Db 422 ACCCTGCTGCAATTGTCCTTGAGGAGCTGCGTCTGCTCTTGAGGCTCTGGGGGACCA 481
Qy 120 LeuHisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleIle 139
Db 482 CTCACATGCCACCTGAGACCTCCTCAGCTCTTCTGATGAGCTCAGATTGATCATTT 541
Qy 140 GluLeuLeuGluValAspGlyMetSerPheGlnGluSerLeuGlyValAspLeuGlyProPhe 159
Db 542 GAGCTGCTGAGAAAGATGATGATGCTTCCAGAGAGCCCTTA--GACCCAGGGCCCTTT 598
Qy 160 AspGlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTy 179
Db 599 GACCAAGGAGCCCTTTGCTCCAGAGCTGCTGAGAGAGCTGAGCAAGCTCAGCAAGCCCTTAC 658
Qy 180 TyrCysSerThrTyArgGlyProGlyAlaProSerProGlySerSerAspValSerThrAla 199
Db 659 CACCCCGGAGCTGTGGCCAGAGAGCCCTCCCTCGAGAGCTGACCTTCCACCGCA 718
Qy 200 ArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeu 219
Db 719 GGGACTGCTGCTTCTCGAGCTCCACCTCTCAGACTCCGCTGAGAGTACGTTGAGACTTG 778
Qy 220 AspLeuThrGlnSerLeuValPheProArgAspAspPheThrAspTyArgGlyValGlu 239
Db 779 GATCCCACTGATGGAGAGCTTCTCCAGAGATGTTTTCGTGACTGCAAGAAAGGGGAT 838
Qy 240 ProLysHisGlyValArgGlyValArgGlyValArgGlyValSerLeuSerLeuGlyTrpAsp 259
Db 839 CCAAGACAGGGAGAGGAGAGAGCCCGCCCGAAACCTGAGCAAGAGTACTGAGGAC 898
Qy 260 CysLeuGlnGlyValLysSerLeuHisAlaProArgGlyThrHisLeuTrpGluPheIle 279
Db 899 TGTCTGAGGGGCAAGAGAGCAAGCAGCCCAAGAGCAACCTGTTGGAGTTCACTC 958
Qy 280 ArgAspIleLeuIleHisProGlnLeuAsnGlnGlyLeuMetLeuTrpGluAsnArgHis 299
Db 959 CGGAGCATCTCATCAACCGGAGCTCAACGAGGCTCATTAAGTGGAGAAATCGGCT 1018
Qy 300 GluGlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLys 319
Db 1019 GAAGGCGCTTCAAGTCTCGGCTCCGAGGCTGAGCCCACTATGAGGGCCAAAAA 1078
Qy 320 LysAsnSerAsnMetThrTyArgLysLeuSerArgAlaMetArgTyArgTyArgLysArg 339
Db 1079 AAGAACAGAACATACCTACCAAGAGCTGAGCCGCGCATAGGACTACATCAAAACGG 1138
Qy 340 GluIleLeuGluArgValAspGlyArgArgLeuValTyArgPheGlyLysAsnSerSer 359
Db 1139 GAGATCTCTGAAACGGGTGATGGCCGGCACTCGTCTACAAATTTGGCAAAATCTAAGC 1198
Qy 360 GlyTrpLysGluGluGluValGlyLysSerArgAsn 371
Db 1199 GGCTGAAAGAGAAAGAGTTCTCCAGAGTCCGAAC 1234

RESULT 7
US-09-925-301-207
; Sequence 207, Application US/09925301

; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 207
; LENGTH: 1996
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-301-207

Alignment Scores:
Pred. No.: 2,57e-172 Length: 1996
Score: 1712.00 Matches: 323
Percent Similarity: 92.74% Conservative: 22
Best Local Similarity: 86.83% Mismatches: 25
Query Match: 86.25% Indels: 2
DB: 10 Gaps: 2

US-08-978-217-16 (1-371) x US-09-925-301-207 (1-1996)

Qy 1 MetAlaAlaThrCysGluIleSerAsnValPheSerAsnTyArgPheAsnAlaMetTySer 20
Db 141 ATGGCTGACACTGATGAGATTAGCAACATTTTGTAGCAACTTCTCAGTCAGTATGACGC 200
Qy 21 SerGluAspProThrLeuAlaProAlaProPro--ThrThrPheGlyThrGluAspLeu 39
Db 201 TCGGAGAGCTCACCCTGCTGCTTCCCTGCTGTCGCACTTTGGGGCCGATGACTTG 260
Qy 40 ValLeuThrLeuAsnAsnGlnGlnMetThrLeuGlnGlyProGluValAspSerThr 59
Db 261 GAACTGACCTGAGCAACCCCGAGATGATGAGGATACAGAGAAAGCCAGCTGTTG 320
Qy 60 SerGluArgProGlnPheThrPheSerThrGlnValLeuGluTrpIleSerThrGlnVal 79
Db 321 GGGGAACAGCCCACTTGTGCTGAGAGCAGAGTTCGAGCTGATGATGATCAACAGTG 380
Qy 80 GluValAsnLysTyArgAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAla 99
Db 381 GAGAAAGAACATGACAGCAAGCCGCTTGAATCTTCAACATGATGATGATGAGCCGC 440
Qy 100 ThrLeuCysSerCysAlaLeuGlnGluLeuValArgLeuValPheGlyProLeuGlyAspGln 119
Db 441 ACCCTGCTGCAATTGTCCTTGAGAGCTGCGTCTGCTTGGGCTCTGGGGGACCA 500
Qy 120 LeuHisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleIle 139
Db 501 CTCACATGCCACCTGCGAGCTTCCAGCTTCTTGTATGAGCTCAGTTGATTCATT 560
Qy 140 GluLeuLeuGluValAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyProPhe 159
Db 561 GAGCTGCTGAGAAAGATGAGCTTCCAGAGAGCCCTTA--GACCCAGGGCCCTTT 617
Qy 160 AspGlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTy 179
Db 618 GACCAAGGAGCAAGCCCTTTGCCAGAGCTGCTGAGAGCTGAGCAAGCAAGCCAGCCCTTAC 677
Qy 180 TyrCysSerThrTyArgGlyProGlyAlaProSerProGlySerSerAspValSerThrAla 199
Db 678 CACCCCGGAGCTGTGGCCAGAGCCCTTCCCTCCCTGAGCTGATGATGATGATGATGATGAT 737
Qy 200 ArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeu 219
Db 738 GGGACTGCTGCTTCTCGAGCTCCACCTCTCAGACTCGGCTGAGAGTACGATGAGCTG 797

QY 220 AspLeuThrGluSerLysValAlaPheProArgAspSerThrAspTyrLysGlyGlu 235
 DB 798 GATCCCACTGATGCAAGCTCTTCCCGAGCGATGTTTCTGATCTCCAGAAAGGGGAT 857
 QY 240 ProLysHisGlyLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAsp 259
 DB 858 CCAGAGCAGGGAAGGAGAAAGGAGGCGGCGCCGAAAGCTGAGCAAAAGACTCTGGAG 917
 QY 260 CysLeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIle 279
 DB 918 TGTCTCGAGGCGCAAGAGAGAGACGCGCCCGAGAGCCACCTCTGGAGATTCTATC 977
 QY 280 ArgAspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHis 299
 DB 978 CGGACATCTCTCATCCACCGGAGCTCAACGAGGCGCTCATGAAAGGAGAACTCGCAT 1037
 QY 300 GluGlyValPheLysPheLeuArgSerGluAlaValAlaGluLeuTrpGluLysLys 319
 DB 1038 GAAGGCGCTTCAAGTCTCGCTCGAGGCTGTGCGCCCAATGAGGCGCAAAAGAAA 1097
 QY 320 LysAsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArg 339
 DB 1098 AAGAAGCAAGCAATGACTTACAGAGAGAGCTGAGCGGCGCAAGACTACTACTACAAACGG 1157
 QY 340 GluIleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSer 359
 DB 1158 GAGATCTCTGAGCGGATGATGCGCGGAGCTCTCTACAAAGTTTGCAAAACTCAAGC 1217
 QY 360 GlyTrpLysGluGluGluValGlyGluSerArgAsn 371
 DB 1218 GGCTGGAAGAGAGAGAGGTTCTCCAGAGTCGAGAC 1253

RESULT 8

US-10-025-380-853/c
 ; Sequence 853, Application US/10025380
 ; Publication No. US20020182191A1

GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Lodes, Michael J.
 ; APPLICANT: Secrist, Heather
 ; APPLICANT: Benson, Darin R.
 ; APPLICANT: Meagher, Madeleine Joy
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Wang, Tongtong
 ; APPLICANT: Jiang, Yugu
 ; APPLICANT: Smith, Carole L.
 ; APPLICANT: King, Gordon E.
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Clapper, Jonathan D.
 ; APPLICANT: Skeiky, Yasir A. W.
 ; APPLICANT: Fanger, Gary R.
 ; APPLICANT: Vedvick Thomas S.
 ; APPLICANT: Carter, Darrick
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
 ; FILE REFERENCE: 210121.471C14
 ; CURRENT APPLICATION NUMBER: US/10/025,380
 ; CURRENT FILING DATE: 2001-12-19
 ; NUMBER OF SEQ ID NOS: 1129
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 853
 ; LENGTH: 626
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-025-380-853

Alignment Scores:

Pred. No.: 8,66e-90 Length: 626
 Score: 928.50 Matches: 174
 Percent Similarity: 90.91% Conservative: 16
 Best Local Similarity: 83.25% Mismatches: 18
 Query Match: 46.78% Indels: 1
 DB: 9 Gaps: 1

US-08-978-217-16 (1-371) x US-10-025-380-853 (1-626)

QY 52 GlyProGluLysAlaSerTrpThrSerGluArgProGluInPheTrpSerLysThrGluVal 71
 DB 624 GTTACAGAGAAAGCCAGCTGTTGGGGAACAGCCCAAGTTCGTGTAAGACCGAGATT 565
 QY 72 LeuGluTrpLysSerTyrGluValGluLysAsnLysTyrAspAlaSerSerIleAspPhe 91
 DB 564 CTGAGCTGATGATCACTCCAAAGTGAAGAAAGAACAGACCAAGCCGACATTGACTTC 505
 QY 92 SerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluGluLeuArgLeu 111
 DB 504 TCAGATGTACATGTGATGCGCACCCCTCTGCAATTGTGCCCTTGAGGAGCTGCGCTG 445
 QY 112 ValPheGlyProLeuGlyAspGluLeuHisAlaGluLeuArgAspLeuThrSerAsnSer 131
 DB 444 GTCTTGGGCTCTTGGGAGCAACTTCATGCCAGCTGCGAGACTCTTCCAGCTCT 385
 QY 132 SerAspGluLeuSerTrpIleIleGluLeuGluLysAspGlyMetSerPheGlu 151
 DB 384 TCTGATAGCTCACTTGTGATTCATTGAGCTCTGAGAAAGATGGCATGGCTTCCAGAG 325
 QY 152 SerLeuGlyAspLeuGlyProPheAspGlySerProPheAlaGluGluLeuAsp 171
 DB 324 GCCCTA---GACCCAGGCGCTTGTGACAGGAGGACGCCCTTTGCCAGGAGCTGCTGAC 268
 QY 172 AspGlyArgGluAlaSerProTyrTyrCysSerThrTyrGlyProGlyValAspSerPro 191
 DB 267 GACGATGAGAGAGAGCCCTTACACCCCGGAGCTGTGCGGAGAGAGAGAGAGAGAGAG 208
 QY 192 GlySerSerAspValSerThrAlaArgThrAlaThrProGluSerSerHisAlaSerAsp 211
 DB 207 GGCAGCTCTGACGCTCTCAACGAGAGAGCTGTGCTCTCTCGAGCTCCACTCTCGAC 148
 QY 212 SerGlyGlySerAspValAspLeuAspLeuThrGluSerLysValPheProArgAspAsp 231
 DB 147 TCCGTTGAGAGTACGCTGAGCTGATCCCACTGATGCAAGCTCTTCCAGAGAGGT 88
 QY 232 PheThrAspTyrLysLysGlyGluProLysHisGlyLysArgLysArgGlyArgProArg 251
 DB 87 TTTCGTACTGCAAGAGAGGGGAGTCCCAAGCAGGAGGAGGAGGAGGAGGAGGAGGAGG 28
 QY 252 LysLeuSerLysGluTyrTrpAspCys 260
 DB 27 AACCTGAGCAAGAGTACTGGACTGT 1

RESULT 9

US-09-922-217-853/c
 ; Sequence 853, Application US/09922217
 ; Patent No. US2002007641A1

GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Lodes, Michael J.
 ; APPLICANT: Secrist, Heather
 ; APPLICANT: Benson, Darin R.
 ; APPLICANT: Meagher, Madeleine Joy
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Wang, Tongtong
 ; APPLICANT: Jiang, Yugu
 ; APPLICANT: Smith, Carole Lynn
 ; APPLICANT: King, Gordon E.
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Clapper, Jonathan D.
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
 ; FILE REFERENCE: 210121.471C13
 ; CURRENT APPLICATION NUMBER: US/09/922,217
 ; CURRENT FILING DATE: 2001-08-03
 ; NUMBER OF SEQ ID NOS: 1124
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 853
 ; LENGTH: 626


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; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-922-217-853

Alignment Scores:
Pred. No.: 8.66e-90      Length: 626
Score: 928.50           Matches: 174
Percent Similarity: 90.91% Conservative: 16
Best Local Similarity: 83.25% Mismatches: 18
Query Match: 46.78%      Indels: 1
DB: 10                  Gaps: 1

US-08-978-217-16 (1-371) x US-09-922-217-853 (1-626)

OY 52 GLYPROGILULYALASerTyrThrSerGluAArgProGlnPheTrpSerLysThrGlnVal 71
Db 624 GGTACAGAGAGAGCCAGCTGGTTGGGGAGACAGCCCACTTGTGTCAGAACGCAAGTT 565
OY 72 LeuGluTrpLieserTyrGlnValGluysAsnLysTyrAspAlaSerSerLleAspPhe 91
Db 564 CTGACAGAGAGAGCCAGCTGGTTGGGGAGACAGCCCACTTGTGTCAGAACGCAAGTT 505
OY 92 SerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLysLeuArgLeu 111
Db 504 TCACGATGTGACATGATGATGGCCCACTCTGCAATGTGCTTGAAGAGCTGGCTGTG 445
OY 112 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSer 131
Db 444 GTCTTTGGGCTCTGGGGAGCCAACTCCATGCCAGCTGCGAGACCTTCACTTCCAGCTCT 385
OY 132 SerAspGluLeuSerTyrLleIleGluLeuLeuGluLysAspGlyMetSerPheGlnGlu 151
Db 384 TCTGATGAGCTCAGTTGATGATGATGCTGTGAGAGAGATGGCATGGCTTCCAGAGAG 325
OY 152 SerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnLysLeuLeuAsp 171
Db 324 GCCCTA---GACCCAGAGGCCCTTTGACAGAGGAGCCCTTTGCCCAGAGAGCTGTGAG 268
OY 172 AspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyValAlaProSerPro 191
Db 267 GACGGTCAAGAGAGCCCACTTACCACTCCAGCTGTGGCGCAGAGAGCCCTTCCCC 208
OY 192 GlySerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAsp 211
Db 207 GGCAGCTCTGACGCTCCACCGCAGGAGCTGGTGTCTTCCGAGCTCCCACTCTCAGAC 148
OY 212 SerGlyGlySerAspValAspLeuAspLeuThrGluSerLysValPheProArgAspAsp 231
Db 147 TCCGGTGAAGAGAGCTGATCCCTGATCCCACTGATGGCAAGCTTCCCCAGCATGGT 88
OY 232 PheThrAspTyrLysLysGlyGluProLysHisGlyLysArgLysArgGlyValArgProArg 251
Db 87 TTTCTGACTGCAAGAGAGGGGATCCCAAGCACGGGAGACGGAACGAGAGCGGCCCGCA 28
OY 252 LysLeuSerLysGluTyrTrpAspCys 260
Db 27 AAGCTGAGCAAAAGATGACTGGGACTGT 1

RESULT 10
US-09-833-263-853/c
; Sequence 853, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolck, John A.
; APPLICANT: Mesgher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833.263
; NUMBER OF SEQ ID NOS: 1093
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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapien
; US-09-833-263-853

Alignment Scores:
Pred. No.: 8.66e-90      Length: 626
Score: 928.50           Matches: 174
Percent Similarity: 90.91% Conservative: 16
Best Local Similarity: 83.25% Mismatches: 18
Query Match: 46.78%      Indels: 1
DB: 10                  Gaps: 1

US-08-978-217-16 (1-371) x US-09-833-263-853 (1-626)

OY 52 GLYPROGILULYALASerTyrThrSerGluAArgProGlnPheTrpSerLysThrGlnVal 71
Db 624 GGTACAGAGAGAGCCAGCTGGTTGGGGAGACAGCCCACTTGTGTCAGAACGCAAGTT 565
OY 72 LeuGluTrpLieserTyrGlnValGluysAsnLysTyrAspAlaSerSerLleAspPhe 91
Db 564 CTGACAGAGAGAGCCAGCTGGTTGGGGAGACAGCCCACTTGTGTCAGAACGCAAGTT 505
OY 92 SerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLysLeuArgLeu 111
Db 504 TCACGATGTGACATGATGATGGCCCACTCTGCAATGTGCTTGAAGAGCTGGCTGTG 445
OY 112 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSer 131
Db 444 GTCTTTGGGCTCTGGGGAGCCAACTCCATGCCAGCTGCGAGACCTTCACTTCCAGCTCT 385
OY 132 SerAspGluLeuSerTyrLleIleGluLeuLeuGluLysAspGlyMetSerPheGlnGlu 151
Db 384 TCTGATGAGCTCAGTTGATGATGATGCTGTGAGAGAGATGGCATGGCTTCCAGAGAG 325
OY 152 SerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnLysLeuLeuAsp 171
Db 324 GCCCTA---GACCCAGAGGCCCTTTGACAGAGGAGCCCTTTGCCCAGAGAGCTGTGAG 268
OY 172 AspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyValAlaProSerPro 191
Db 267 GACGGTCAAGAGAGCCCACTTACCACTCCAGCTGTGGCGCAGAGAGCCCTTCCCC 208
OY 192 GlySerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAsp 211
Db 207 GGCAGCTCTGACGCTCCACCGCAGGAGCTGGTGTCTTCCGAGCTCCCACTCTCAGAC 148
OY 212 SerGlyGlySerAspValAspLeuAspLeuThrGluSerLysValPheProArgAspAsp 231
Db 147 TCCGGTGAAGAGAGCTGATCCCACTGATGGCAAGCTTCCCCAGCATGGT 88
OY 232 PheThrAspTyrLysLysGlyGluProLysHisGlyLysArgLysArgGlyValArgProArg 251
Db 87 TTTCTGACTGCAAGAGAGGGGATCCCAAGCACGGGAGACGGAACGAGAGCGGCCCGCA 28
OY 252 LysLeuSerLysGluTyrTrpAspCys 260
Db 27 AAGCTGAGCAAAAGATGACTGGGACTGT 1

RESULT 11
US-10-025-380-944/c
; Sequence 944, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secret, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Mesgher, Madeleine Joy
; APPLICANT: Stolck, John A.
; APPLICANT: Wang, Tonglong
```



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APPLICANT: Jiang, Yugui
APPLICANT: Smith, Carole L.
APPLICANT: King, Gordon E.
APPLICANT: Wang, Aijun
APPLICANT: Clapper, Jonathan D.
APPLICANT: Skelky, Yasir A. W.
APPLICANT: Fanger, Gary R.
APPLICANT: Vedvick Thomas S.
APPLICANT: Carter, Darrick
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.41C14
CURRENT APPLICATION NUMBER: US/10/025,380
CURRENT FILING DATE: 2001-12-19
NUMBER OF SEQ ID NOS: 1129
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 944
LENGTH: 563
TYPE: DNA
ORGANISM: Homo sapiens
US-10-025-380-944

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DB	Seq	Score	Percent Similarity	Percent Local Similarity	Query Match	DB	Seq	Score	Percent Similarity	Percent Local Similarity	Query Match
Db	85	CGTACTGCAAGAAAGGGGGATCCCAAGCAACGGGAACGGAAACGAGGCGGCCCGCAAG	26			Db	25	CTGAGCAAAAGTACTGGGACTGT	2		
Qy	253	LeuSerlysglytyrTTPaPcy	260			Qy	253	LeuSerlysglytyrTTPaPcy	260		
Db	25	CTGAGCAAAAGTACTGGGACTGT	2			Db	25	CTGAGCAAAAGTACTGGGACTGT	2		
RESULT 13											
US-09-833-263-944/C											
Sequence 944, Application US/09833263											
Patent No. US20020110547A1											
GENERAL INFORMATION:											
APPLICANT: Wang, Aijun											
APPLICANT: Clapper, Jonathan D.											
APPLICANT: Stolk, John A.											
APPLICANT: Meagher, Madeleine J.											
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND											
TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE											
FILE REFERENCE: 210121.471C12											
CURRENT APPLICATION NUMBER: US/09/833,263											
CURRENT FILING DATE: 2001-04-10											
NUMBER OF SEQ ID NOS: 1093											
SOFTWARE: FastSeq for Windows Version 3.0											
SEQ ID NO 944											
LENGTH: 563											
TYPE: DNA											
ORGANISM: Homo sapien											
US-09-833-263-944											
Alignment Scores:											
Pred. No.:	9.24e-80	Length:	563								
Score:	833.50	Matches:	157								
Percent Similarity:	91.49%	Conservative:	15								
Percent Local Similarity:	83.51%	Mismatches:	15								
Query Match:	41.99%	Indels:	1								
DB:	10	Gaps:	1								
US-08-978-217-16 (1-371) x US-09-833-263-944 (1-563)											
Qy	73	GLUTPILeserTYrgInValIguLysAmLyTyraSPAlasSerIleasPheSer	92								
Db	562	GACGGATCAGCTCACTCAAGTGGAGAAAGAACAGTACGACGACGACCTTCACTTCA	503								
Qy	93	ArgCybaenMetarPglYalTnIleuCyseSerCyAlaleuGIuLleuAArgIleuVal	112								
Db	502	CGATGTGACAGTATGGCGCCACCTCTGCAATTTGCTTGAAGAGCTGGCTGTGTC	443								
Qy	113	PheGIyPProLeuGIYAaPrgInLeuHIEAlGIleuAArgPheuThSerAsnSer	132								
Db	442	TTTGGGCTCTGGGGGAGCAACTTCATGCCACCTCGAGACTCACTTCAGCTCTTCT	383								
Qy	133	AspGluLeuSerTPIleIeGIleuLeuGIuLyAspGIYmetSerPheGIuIuSer	152								
Db	362	GATGAGCTCACTTGGATCATTTGAGCTCTGGAGAGGATGGCATGGCTTCCAGGAGGCC	323								
Qy	153	LeuGIyAspLeuGIyProPheAspGIuGIySerProPheAlaGIuLleuLeuAsp	172								
Db	322	CTA--GACCCAGGGCCCTTTGACAGGGGACGCCCTTTGCCAGGAGCTGTGAGACAC	266								
Qy	173	GIYArGIuAlaSerProTYrTYrCyseSerThTYGIYProGIYAlaProSerProGIY	192								
Db	265	GCTCAGCAAGCCACCCCTTCAACCCCGGACGCTGGGCGAGAGACCCCTCCCGAGC	206								
Qy	193	SerSerAspValSerThnAlaArgThnAlaThProGIuSerSerThIAlaSerAsp	212								
Db	205	AGCTTGAACGCTTCCACCGAGGAGCTGGTCTTCCGAGCTCCCACTTCCACATCC	146								
Qy	213	GIYGIySerAspValaAspLeuAspLeuThGIuSerLyValaPheProArgAspAsp	232								
Db	145	GCTGGAAGTACGCGGACCTGGATCCCATCGATGGCAAGGACTTCCCGAGCATGTTT	86								
Qy	233	ThraSerTYrLybLyGIuLProLybHIGLyLyValGIyValArgGIYArgProArgLy	252								
Db	85	CGTACTGCAAGAAAGGGGGATCCCAAGCAACGGGAACGGAAACGAGGCGGCCCGCAAG	26								

Oy	253	LeuSerLySGlUuTyrTrpAaPQCyS	260
Db	25	CTGAGCAAAAGACTACTGGAGCTGT	2
RESULT 14			
US-10-076-622-282			
; Sequence 282, Application US/10076622			
; Publication No. US20030023036A1			
; GENERAL INFORMATION:			
; APPLICANT: Houghton, Raymond L.			
; APPLICANT: Sleath, Paul R.			
; APPLICANT: Persing, David H.			
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY			
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER			
; FILE REFERENCE: 210121.470C11			
; CURRENT APPLICATION NUMBER: US/10/076,622			
; NUMBER OF FILING DATE: 2002-02-13			
; NUMBER OF SEQ ID NOS: 627			
; SOFTWARE: FastSeq for Windows Version 4.0			
; SEQ ID NO 282			
; LENGTH: 502			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-10-076-622-282			
Alignment Scores:			
Pred. No.: 1,36e-76 Length: 502			
Score: 803.33 Matches: 149			
Percent Similarity: 93.33% Conservative: 5			
Best Local Similarity: 90.30% Mismatches: 11			
Query Match: 40.45% Indels: 0			
DB: 9 Gaps: 0			
US-08-978-217-16 (1-371) x US-10-076-622-282 (1-502)			
Oy	185	GLYProGlyAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrPro	204
Db	6	GGCGAGAGAGCCCCCTCCCGGAGACTGTGACTCCACCGGAGGAGCTGGGCTTCT	65
Oy	205	GLNserSerThrAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGlnSer	224
Db	66	CGGAGCTTCCCACTCTCAGACTCGGAGGAAGGACGTGACCTGGATCCACCTGATGAGC	125
Oy	225	LYsValPheProArgAspAspPheThrAspTyrLysLysGlyGluProLysSHISGlyLys	244
Db	126	AAGCTCTTCCCAAGCATGCTTTTCGTGACTGCAAGAAAGGGGATCCCAAGACGGGAAAG	185
Oy	245	ArgLysArgGlyArgProArgLysLeuSerLysGlyLysTyrTrpAspCysLeuGluGlyLys	264
Db	186	CGGAAACGAGGCGCGGCCCGGAAAGCTGAGCAAGACTGAGGACTCTCTCGAGGGCAAG	245
Oy	285	LYsSerLysSHISAlaProArgGlyThrHisLeuThrGluPheIleArgAspIleLeuIle	284
Db	246	AAGAGCAAGCACGGGCCAGAGGACCCACCTGTGGAGTTCATCCGGGACATCTTCATC	305
Oy	285	HISProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlyGlyValPheLys	304
Db	306	CACCCGAGCTCAACGAGGCGCTCATGAAGGGAGAAATGGCATGAAAGCGCTTCAAG	365
Oy	305	PheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysAsnSerAsnMet	344
Db	366	TTCCGTGCGCTCCGAGGCGTGTGGCCCACTATGGGGCCAAAAGAAAAGAACAGCACATG	425
Oy	325	ThrTyrGlyLysLeuSerArgAlaMetArgTyrTyrTyrTyrLysArgGlyIleLeuGluArg	344
Db	426	ACCTACGAGAACTGAGAGCGGGGCGCATAGGTACTACTACAAACGGAGAGACTTGGAAAGG	485
Oy	345	ValAspGlyArgArg 349	
Db	486	GTGGATGGCCGGCCA 500	
RESULT 15			

US-09-604-287A-282
; Sequence 282, Application US/09604287A
; Patent No. US20020064872A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugui
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.470C7
; CURRENT APPLICATION NUMBER: US/09/604,287A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 489
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-604-287A-282

Alignment Scores:
Pred. No.: 1,366-76 Length: 502
Score: 803.00 Matches: 149
Percent Similarity: 93.33% Conservative: 5
Best Local Similarity: 90.30% Mismatches: 11
Query Match: 40.45% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-16 (1-371) x US-09-604-287A-282 (1-502)

QY 185 GYPRGGLYALAPROSERPROGLYSESERASPVASERThraAlaThraPro 204
DB 6 GGGCAGGAGCCCCCTCCCGGAGCTGACGCTCCACCGGAGGAGCTGTCTTCT 65
QY 205 GlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSer 224
DB 66 CGAGAGCTCCACCTCCTCAGACTCCGCTGGAAGTACCTGACCTGATCCCACTGATGCG 125
QY 225 LysValPheProArgAspAspPheThrAspTyrLysLysGlyGluProLysHisGlyLys 244
DB 126 AAGCTCTTCCCGCAGAGTGTGTTTCTGACTGCAAGAGGGGATCCCAAGCAGGGAAG 185
QY 245 ArgLysArgGlyArgProArgLysLeuSerLysGlyLysTyrTrpAspCysLeuGluGlyLys 264
DB 186 CGGAACGAGGCGCGCCCGCAAGCTGAGCAAGAGTACTGGACTGTCTCGAGGGCAAG 245
QY 265 LysSerLysHisAlaProArgGlyThrHisLeuTyrGluPheLeuAspLeuLeuIle 284
DB 246 AAGAGCAGACAGCGGCCCAAGAGCACCTGTGGAGTTTCATCCGGACATCTCATC 305
QY 285 HisProGluLeuAsnGluGlyLeuMetLysTyrGluAsnArgHisGluGlyValPheLys 304
DB 306 CACCCGAGCTCAACGAGGAGCTCATGAGTGGAGATCGCATGAAGGGGTCTTCAAG 365
QY 305 PheLeuArgSerGluAlaValAlaGlnLeuTyrGlyGlnLysLysLysAsnSerAsnMet 324
DB 366 TTCCTGGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAGAACAGCACATG 425
QY 325 ThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGluIleLeuGluArg 344
DB 426 ACCTACAGAGAGCTGAGCCCGGAGCATGAGTACTACTACAAACGGAGATCTTGAACGG 485
QY 345 ValAspGlyArgArg 349
DB 486 GTGATGGCCGGCGA 500

Search completed: March 16, 2003, 03:36:23
Job time: 112.105 sec

